

UNITED STATES PATENT OFFICE.

AUGUST F. W. PARTZ, OF OAKLAND, CALIFORNIA.

IMPROVEMENT IN THE MANUFACTURE OF SUGAR.

Specification forming part of Letters Patent No. **139,078**, dated May 20, 1873; application filed March 1, 1873.

To all whom it may concern:

Be it known that I, AUGUST F. W. PARTZ, of Oakland, in the county of Alameda and State of California, have invented a certain Improvement in Transforming Granular into Solid Sugar, of which the following is a specification:

When thoroughly-refined moist granular sugar has been subjected to pressure the dried product is not as firm and solid as that obtained in the same manner from sugar which has not been entirely freed from sirup and the glutinous substances contained in the crude material.

The object of my invention is to render well-purified sugar more adhesive; and it consists in dissolving a small quantity of dextrine in the water or "washing-liquor" last introduced into a centrifugal machine in the working of each batch of sugar.

A convenient mode of applying my invention is as follows: A tank or other suitable vessel placed above a centrifugal machine in which granular sugar is purged and collected is filled with a solution of one part of dextrine or British gum in from two to five hundred

parts of water, according to the quality of the sugar under treatment. From the bottom of the vessel a pipe or hose provided with a cock or nozzle leads to the machine. When from a batch of sugar the sirup has been thrown off, and by means of a stream of water or washing-liquor it has been rendered white, so as to be considered finished, the attending workman lets a jet or spray of the dextrine solution into the machine, whereupon he applies the brake, and after the machine has stopped removes the sugar, which may then be pressed into cubes or blocks by any of the devices designed for that purpose. If it be deemed expedient, the speed of the machine may be checked before the dextrine solution is introduced.

I claim as my invention—

The application of a solution of dextrine to granular sugar in a centrifugal machine, substantially as and for the purpose herein described.

AUGUST F. W. PARTZ.

Witnesses:

JOHN L. BOONE,
GEO. H. STRONG.